

CURRICULUM VITAE
Angela M. Caliendo, M.D., Ph.D., FIDSA

Business or Mailing Address

Rhode Island Hospital
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EDUCATION

Undergraduate

(b)(6) B.S. Grove City College, Grove City, PA (Biology)

Medical School

(b)(6) M.D. Case Western Reserve University School of Medicine, Cleveland, OH

Other Advanced Degrees

(b)(6) Kent State University, Kent, OH (Biochemistry)

(b)(6) Ph.D. Case Western Reserve University, Cleveland, OH (Biochemistry)
Advisor: Mulchand S. Patel, PhD

POSTGRADUATE TRAINING

Residency

(b)(6) Intern in Medicine, Brigham and Women's Hospital, Boston, MA

Assistant and Senior Resident in Medicine, Brigham and Women's Hospital, Boston, MA

Chief Medical Resident, West Roxbury Division, Brockton/West Roxbury VA Medical Center (3 months)

Fellowships

(b)(6) Fellow in Infectious Disease, Massachusetts General Hospital,

Executive Leadership in Academic Medicine (ELAM), Fellow, Institute for Women's Health and Leadership, Drexel University College of Medicine

(b) (6)

Woodruff Leadership Academy, Woodruff Health Sciences Center,
Atlanta, GA

POSTGRADUATE HONORS AND AWARDS

| | |
|------|---|
| 1978 | Magna Cum Laude, Grove City College, Grove City, PA |
| 1987 | Alpha Omega Alpha, Case Western Reserve University School of Medicine |
| 1987 | American College of Physicians, Ohio Chapter - Award to the Outstanding Student Entering Internal Medicine |
| 1997 | Faculty Prize for Excellence in Teaching Clinical Pathology Residents, Massachusetts General Hospital |
| 1999 | ASM Foundation for Microbiology Lecturer, American Society for Microbiology |
| 1999 | Outstanding Speaker Award, American Association for Clinical Chemistry |
| 2001 | Golden Apple Teaching Award, Department of Pathology and Laboratory Medicine, Emory University School of Medicine |
| 2002 | Emory University Attending Teaching Award, Department of Medicine, Emory University School of Medicine |
| 2003 | Emory University Attending Teaching Award, Department of Medicine, Emory University School of Medicine |
| 2004 | Outstanding Editorial Board Member, Journal of Clinical Microbiology |
| 2006 | Anna Lee Boyett Award, In recognition of outstanding support to the Department of Pathology Residency Training Program, Department of Pathology and Laboratory Medicine, Emory University School of Medicine. |
| 2007 | Fellow, Infectious Diseases Society of America |
| 2010 | Silver Pear Mentoring Award – Clinical, Department of Medicine, Emory University School of Medicine, Atlanta, GA |
| 2011 | Clinical and Laboratory Standards Institute Award in recognition of leadership and service |
| 2011 | Enders Lecturer, Infectious Diseases Society of America |
| 2013 | Fellow, American College of Physicians |

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

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|------|--|
| 1989 | Commonwealth of Massachusetts Medical License, (b)(6) |
| 1999 | Georgia State Medical License, (b)(6) |
| 1990 | Diplomate in Internal Medicine, American Board of Internal Medicine |
| 1992 | Diplomate in Infectious Diseases, American Board of Internal Medicine |
| 2002 | Recertification, Diplomate in Infectious Diseases, American Board of Internal Medicine |
| 2012 | Recertification, Diplomate in Infectious Diseases, American Board of Internal Medicine |
| 2012 | Rhode Island State Medical License, (b)(6) |

ACADEMIC APPOINTMENTS

| | |
|----------------|---|
| 1994 - 1997 | Instructor in Pathology, Harvard Medical School |
| 1997 - 1999 | Assistant Professor of Pathology, Harvard Medical School |
| 1999 - 2001 | Assistant Professor, Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA |
| 2000 - 2002 | Assistant Professor, Medicine, Emory University School of Medicine, Atlanta, GA |
| 2001 - 2006 | Associate Professor, Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA |
| 2002 - 2009 | Associate Professor, Medicine, Emory University School of Medicine, Atlanta, GA |
| 2003 - 2013 | Vice Chair, Clinical Pathology, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA |
| 2006 - 2013 | Professor (Tenure), Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA. |
| 2009 - 2013 | Professor, Medicine, Emory University School of Medicine, Atlanta, GA |
| 2013 – present | Professor (Research), Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA. |
| 2013-present | Professor (Research Scholar Track) Department of Medicine, Brown University, Providence, RI. |

HOSPITAL APPOINTMENTS

| | |
|-------------|--|
| 1994 - 1997 | Assistant in Microbiology (Pathology), Massachusetts General Hospital, Boston, MA |
| 1997 - 1999 | Assistant Microbiologist (Pathology), Massachusetts General Hospital, Boston, MA |
| 1994 - 1998 | Clinical Assistant in Medicine, Massachusetts General Hospital, Boston, MA |
| 1998 - 1999 | Assistant in Medicine, Massachusetts General Hospital, Boston, MA |
| 1999 - 2013 | Medical Director of Clinical Microbiology and Molecular Diagnostics, Emory University Hospital, Atlanta, GA |
| 1999 - 2013 | Attending Physician, Infectious Diseases Division, Emory University Hospital, Atlanta, GA |
| 2001 - 2013 | Medical Director, Emory Medical Laboratories, Emory University Hospital, Atlanta, GA |
| 2002 - 2006 | Director, Clinical Laboratories, Egleston Children's Hospital, Children's Healthcare of Atlanta, Atlanta, GA |
| 2006 - 2010 | Consultant, Molecular Microbiology, Children's Healthcare of Atlanta, Atlanta, GA. |
| 2007 – 2010 | Director, Infectious Diseases, Emory University Hospital, Atlanta, GA. |

- 2013 - Executive Vice Chair, Department of Medicine, Alpert Medical School, Brown University, Providence, RI (anticipated start date 1/2013)
- 2013 - Director, Division of General Medicine, Department of Medicine, Alpert Medical School, Brown University, Providence, RI (anticipated start date 1/2013)

OTHER APPOINTMENTS

Administrative Appointments

- 1995 - 1999 Residency Recruiting Committee, Pathology Department, Massachusetts General Hospital, Boston, MA
- 1998 - 1999 Laboratory Medicine Clinical Advisory Committee, Pathology Department, Massachusetts General Hospital, Boston, MA
- 1998 - 1999 Core Laboratory Committee, Pathology Department, Massachusetts General Hospital, Boston,
- 2000 - 2013 Executive Committee, Department of Pathology, Emory University, Atlanta, GA
- 2002 - 2013 Director, Clinical Pathology, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta,
- 2001 - 2013 Infectious Diseases Division Executive Committee, Emory University School of Medicine, Atlanta, GA
- 2001 - 2013 Director, Medical Microbiology Fellowship, Department of Pathology and Laboratory Medicine, Emory University Hospital, Atlanta, GA
- 2004 - 2013 Co-Director, Virology Core, Center for AIDS Research, Emory University School of Medicine, Atlanta, GA.
- 2010 – 2013 Director of Academic Affairs, Emory Healthcare, Atlanta, GA.
- 2013 - Vice President, University Medicine Foundation, Providence, RI

National/International

- 1995 - 2004 Advisor, Subcommittee on Antiviral Susceptibility Testing, National Committee for Clinical Laboratory Standards (NCCLS).
- 1995 - 2000 ACTG 301 - Protocol Virologist
- 1996 - 1999 Investigator, AIDS Clinical Trials Group (ACTG)
- 1997 - 2003 Member, Subcommittee on Quantitative Molecular Diagnostics for Infectious Diseases, National Committee for Clinical Laboratory Standards (NCCLS).
- 1997 - 1999 Member, Complications of HIV Disease RAC Viral Diseases Pathogen Study Group
- 1998 - 2000 Member, CMV Quantitation Working Group (ACTG)
- 2000 - 2006 Member, Molecular Genetic Pathology Test Committee, American Board of Pathology
- 2000 Member, Study Section, National Institutes of Health, Infectious Diseases and Microbiology, SBIR Grants
- 2000 - 2003 Co-Chairman, CMV Quantitation Working Group (ACTG)
- 2002 - 2005 Member, Subcommittee for Genotyping for Infectious Diseases, Clinical and Laboratory Standards Institute (formerly NCCLS).
- 2003 Strategic Planning Group, Association of Molecular Pathology
- 2006 - 2011 Member, Microbiology Resource Committee, College of American Pathologist
- 2006 - 2007 Member, Molecular Pathology Resource Committee, College of American Pathologists
- 2008- 2010 Co-Chair, Subcommittee on Quantitative Molecular Methods for Infectious Diseases, Clinical and Laboratory Standards Institute
- 2011- Chair, Microbiology Medical Devices Panel, FDA

Editorships and Editorial Boards

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|-------------|--|
| 1996 - 2004 | Editorial Board, Antiviral Therapy |
| 1999 - 2007 | Editorial Board, Journal of Molecular Diagnostics |
| 1999 - 2001 | Editorial Board, Molecular Diagnosis |
| 2002 - 2010 | Editorial Board, Journal of Clinical Microbiology |
| 2002 - 2007 | Editorial Board, Clinical Microbiology Reviews |
| 2005 - | Associate Editor, Journal of Clinical Virology |
| 2007 - 2012 | Editor, Clinical Microbiology Reviews |
| 2008 - 2012 | Associate Editor, Journal of Molecular Diagnostics |
| 2013 - | Editor, Journal of Clinical Microbiology |
| 2013 - | Editorial Board, Journal of Molecular Diagnostics |

Manuscript Reviewer (Ad hoc)

New England Journal of Medicine
Clinical Infectious Diseases
Journal of Clinical Microbiology
Journal of Infectious Diseases
Molecular Diagnosis
Antimicrobial Agents and Chemotherapy
Clinical Chemistry
American Journal of Transplantation
Journal of Viral Hepatitis
AIDS Research and Human Retroviruses

HOSPITAL COMMITTEES

| | |
|----------------|--|
| 1999 – present | Antibiotic Usage/Assistance Committee, Emory University Hospital, Atlanta, GA |
| 2000 - present | Chair Laboratory Operations Committee, Emory University and Emory University Hospital Midtown (Crawford Long Hospitals), Atlanta, GA |
| 2000 - 2004 | Member, Laboratory Services Advisory Committee, Crawford Long Hospital, Atlanta |
| 2001 - 2004 | Member, Laboratory/AP Governance Committee, Emory University Hospital, Atlanta |
| 2001 - 2004 | Member, Laboratory Services Advisory Committee, Emory University Hospital, Atlanta, GA |
| 2002 - 2005 | Chair, Laboratory Services Committee, The Emory Clinic, Atlanta |
| 2001 - 2010 | Member, Contract Pricing Committee, Emory Healthcare, Atlanta, GA |
| 2002 - 2004 | Emory Electronic Medical Record Executive Decision Team, Emory Healthcare, Atlanta, GA |
| 2003 - 2008 | Emory Clinic CEO Advisory Committee, The Emory Clinic, Atlanta, GA |
| 2004 - 2013 | Risk Management Liaison for the Department of Pathology, Emory Healthcare, Atlanta, GA |
| 2004 - 2009 | Professional Services Committee, Emory University Hospital, Atlanta, GA |
| 2005 - 2013 | Member, Ad hoc Committee-Physicians Benefits, Emory Healthcare, Atlanta, GA |
| 2005 - 2006 | Member, Search Committee for Chief Nursing Officer, Emory Healthcare |
| 2006 - 2008 | Physician Advisory Committee for EeMR, Emory Healthcare, Atlanta, GA |
| 2007 - 2013 | Medical Practice Committee, Emory University Hospital, Atlanta, GA |
| 2007 - 2013 | Medical Executive Committee, Emory University Hospital, Atlanta, GA |

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| 2007 - 2008 | Member, Search Committee for Chief Human Resources Officer, Emory Healthcare |
| 2009 - 2013 | Member, Physician Steering Committee for Clinical Design, Emory Healthcare |
| 2010 - 2013 | Member, Quality Council, Emory Healthcare, Atlanta, GA |
| 2013 - | Chair, Patient Flow Committee, Rhode Island Hospital, Providence, RI |

UNIVERSITY COMMITTEES

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|-------------|---|
| 1999 - 2000 | Chairman, Ad Hoc Microarray/Translational Research Committee, Department of Pathology, Emory University, Atlanta, GA |
| 1999 - 2000 | Member, Search Committee, Technical Director, Microbiology Laboratory, Grady Hospital, Atlanta, GA |
| 2000 - 2013 | Infectious Diseases Fellowship Education Committee, Emory University School of Medicine, Division of Infectious Diseases, Atlanta, GA |
| 2000 - 2013 | Residency Committee, Emory University School of Medicine, Department of Pathology, Atlanta, GA |
| 2001 | Member, Search Committee, Chairman, Orthopedics Department, Emory University School of Medicine, Atlanta, GA |
| 2002 | Member, School of Medicine Organizational Reassessment Committee, Emory University School of Medicine, Atlanta, GA |
| 2002 - 2013 | Member, Promotions Committee, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA |
| 2003 - 2004 | Chair, Search Committee, Director, Clinical Microbiology, Children's Healthcare of Atlanta, Atlanta, GA |
| 2004- 2007 | Reviewer, Seed Grants, Department of Pediatrics, Emory University School of Medicine, Atlanta, GA (annual review) |
| 2004 | Opportunity Committee, Pan-University Ad Hoc Faculty Group, Emory University, Atlanta, GA |
| 2004 - 2005 | Chair, Search Committee, Director, Core Laboratory, Children's Healthcare of Atlanta, Atlanta, GA |
| 2005 | Chair, Search Committee, Director Clinical Laboratories, Grady Memorial Hospital, Atlanta, GA |
| 2006 | Member, Search Committee, Director of Anatomical Pathology, Emory University School of Medicine, Atlanta, GA. |
| 2012 | Member, Dean Search Committee, Emory University School of Medicine |
| 2013 - | Member, Search Committee for Chair of Pediatrics, Alpert Medical School at Brown University, Providence, RI |
| 2013- | Member, Medical Faculty Executive Committee, Alpert Medical School at Brown University, Providence, RI |

MEMBERSHIP IN SOCIETIES

| | |
|----------------|--|
| 1991 - present | Infectious Disease Society of America |
| | Offices Held: 2011- present Member, Research Committee |
| | 2012- present Chair, Diagnostics Policy Task Force |
| 1992 - present | American College of Physicians |
| 1993 - 1995 | American Medical Women's Association |
| 1995 - present | American Society for Microbiology |

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|----------------|--|--|
| 1995 - present | Association for Molecular Pathology | |
| | Offices Held: | 2000 Chair, Infectious Diseases Subdivision |
| | | 2001 - 2009 Member, Professional Relations Committee |
| | | 2003 Member, Strategic Planning Group |
| | | 2003 - 2005 President-Elect, President, Past-President |
| | | |
| 1997 - present | Pan American Society for Clinical Virology | |
| | Offices Held: | 2002 - 2006 Council Member |
| | | 2008 -present President-Elect, President, Past-President |
| | | |
| 2000 - 2012 | American Association of Clinical Chemists | |

PUBLICATIONS LIST

Original Publications in Peer-Reviewed Journals

1. **Caliendo AM**, and Patel MS. Insulin Receptors in Developing Rat Liver: Acquisition of Regulation in the Immediate Postnatal Period. *Archives of Biochemistry and Biophysics*. 1983; 227:552-561.
2. Haney PM, Estrin CR, **Caliendo AM**, and Patel MS. Precocious Induction of Hepatic Glucokinase and Malic Enzyme in Artificially Reared Rat Pups Fed a High-Carbohydrate Diet. *Archives of Biochemistry and Biophysics*. 1986; 244:787-794.
3. Ho L, Javed AA, Pepin RA, Thekkumkara TJ, Raefsky C, Mole JE, **Caliendo AM**, Kwon MS, Kerr DS, and Patel MS. Identification of A cDNA Clone for the B-Subunit of the Pyruvate Dehydrogenase Component of Human Pyruvate Dehydrogenase Complex. *Biochemical and Biophysical Research Communications*. 1988; 150:904-908.
4. Eron JJ, Chow Y-K, **Caliendo AM**, Videler J, DeVore K, Cooley TC, Liebman H, Kaplan J, Hirsch MS, and D'Aquila RT. Pol mutations conferring zidovudine and didanosine resistance with different effects in vitro yield multiply resistant human immunodeficiency virus type 1 isolates in vivo. *Antimicrobial Agents & Chemotherapy*. 1993; 37:1480-1487.
5. Zhang D, **Caliendo AM**, Eron JJ, DeVore KM, Kaplan JC, Hirsch MS, and D'Aquila RT. Resistance to 2', 3'-dideoxycytidine conferred by a mutation in codon 65 of human immunodeficiency virus type 1 reverse transcriptase. *Antimicrobial Agents & Chemotherapy*. 1994; 38:282-287.
6. **Caliendo AM**, Jordan CD, and Ruoff KL. *Helcococcus*, a new genus of catalase-negative, gram positive cocci isolated from clinical specimens. *Journal of Clinical Microbiology*. 1995; 33:1638-1639.
7. **Caliendo AM**, Savara A, An D, DeVore KM, Kaplan JC, and D'Aquila RT. Effects of zidovudine-selected HIV-1 reverse transcriptase amino acid substitutions on processive DNA synthesis and viral replication. *Journal of Virology*. 1996; 70:2146-2153.
8. Harrer T, Harrer E, Kalams SA, Elbeik T, Feinberg M, Cao Y, Ho DD, Tilahun Y, **Caliendo AM**, Johnson RP, Buchbinder S, and Walker BD. Strong cytotoxic T cells and

- weak neutralizing antibodies responses in a subset of persons with stable non-progressing HIV type 1 infection. *AIDS Research & Human Retroviruses*. 1996; 12:585-592.
9. Manion DJ, Vibhagool A, Chou T-C, Kaplan J, **Caliendo AM**, and Hirsch MS. Susceptibility of human cytomegalovirus (HCMV) to 2-drug combinations in vitro. *Antiviral Therapy*. 1996; 1:237-245.
 10. Farrar DJ, Cu Uvin S, **Caliendo AM**, Costello SF, Murphy DM, Flanigan TP, Mayer KH, and Carpenter CCJ. Detection of HIV-1 RNA in vaginal secretions of HIV-1-seropositive women who have undergone hysterectomy [Letter]. *AIDS*. 1997; 11:1296-1297.
 11. Hass J, Jernick SL, Scardina J, Teruya J, **Caliendo AM**, and Ruoff KL. Colonization of skin by *Helcococcus kunzii*. *Journal of Clinical Microbiology*. 1997; 35:2759-2761.
 12. Cu Uvin S and **Caliendo AM**. Cervicovaginal human immuno-deficiency virus secretion and plasma viral load in human immuno-deficiency virus-seropositive women. *Obstetrics & Gynecology*. 1997; 90:739-743.
 13. Rosenberg ES, Billingsley JM, **Caliendo AM**, Boswell SL, Sax P, Kalams SA, Walker BD. Vigorous HIV-1-specific CD4+ T cell responses associated with control of viremia. *Science*. 1997; 278:1447-1450.
 14. **Caliendo AM**, Hewitt PL, Allega JM, Keen A, Ruoff KL, and Ferraro MJ. Performance of a PCR assay for the detection of *Pneumocystis carinii* from respiratory specimens. *Journal of Clinical Microbiology*. 1998; 36:979-982.
 15. Cu Uvin S **Caliendo AM**, Reinert, Mayer KH, Flanigan TP, and Carpenter CC. HIV-1 in the female genital tract and the effect of antiretroviral therapy [Letter]. *AIDS*. 1998; 12:826-7.
 16. Akpek EK, Kent C, Jakobiec F, **Caliendo AM**, and Foster CS. Bilateral acute retinal necrosis caused by cytomegalovirus in an immunocompromised patient. *American Journal of Ophthalmology*. 1999; 127:93-5.
 17. Rosenberg ES, **Caliendo AM**, and Walker BD. Acute HIV infection among patients tested for mononucleosis [Letter]. *New England Journal of Medicine*. 1999; 340:969.
 18. Humar A, Gregson D, **Caliendo AM**, McGeer A, Malkan G, Krajden M, Corey P, Greig P, Walmsley S, Levy G, and Mazzulli T. Clinical utility of quantitative cytomegalovirus viral load determination for predicting cytomegalovirus disease in liver transplant recipients. *Transplantation*. 1999; 68:1305-1311.
 19. Murphy RL, Gulick RM, DeGruttola V, D'Aquila RT, Eron JJ, Sommadossi J-P, Currier JS, Smeaton L, Frank I, **Caliendo AM**, Gerber JG, Tung R, and Kuritzkes DR, for the AIDS Clinical Trials Group 347 Study Team. Treatment with amprenavir alone or amprenavir with zidovudine and lamivudine in adults with human immunodeficiency virus infection. *Journal of Infectious Diseases*. 1999; 179:808-16.
 20. Tashima KT, **Caliendo AM**, Ahmad M, Gormley JM, Fiske WD, Brennan JM, and Flanigan TP. Cerebrospinal fluid (CSF) human immunodeficiency virus type 1 (HIV-1) suppression and efavirenz drug concentrations in HIV-1 infected patients receiving combination therapy. *Journal of Infectious Diseases*. 1999; 180:862-4.

21. Ahmad M, Tashima KT, **Caliendo AM**, and Flanigan TP. Cerebrospinal fluid and plasma HIV-1 RNA stability at 4°C. *AIDS*. 1999; 13:1281-1282.
22. Mani I, Cao H, Hom D, Johnson JL, Mugerwa RD, Travers KU, **Caliendo AM**, Walker BD, and Kanki PJ. Plasma RNA viral load as measured by the bDNA and NASBA assays of HIV-1 subtypes A and D in Uganda. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 1999; 22(2):208-209.
23. Witt DJ, Kemper M, Stead A, Ginocchio CC, and **Caliendo AM**. Relationship of incremental specimen volumes and enhanced detection of human immunodeficiency virus type-1 RNA with nucleic acid amplification technology. *Journal of Clinical Microbiology*. 2000; 38: 85-89.
24. Cu-Uvin S, **Caliendo AM**, Reinnert S, Chang A, Juliano-Remollino C, Flanigan TP, Mayer KH, and Carpenter CCJ. Effect of highly active antiretroviral therapy on cervicovaginal HIV-1 RNA. *AIDS*. 2000; 14:415-421.
25. **Caliendo AM**, St. George K, Kao S-Y, Allegra J, Tan B, LaFontaine R, Bui L, and Rinaldo CR. Quantitative CMV PCR in Plasma as Compared with CMV Antigenemia: Clinical Utility of the Prototype AMPLICOR CMV MONITOR Test in Transplant Recipients. *Journal of Clinical Microbiology*. 2000; 38:2122-2127.
26. Shacklett BL, Cu-Uvin S, Beadle TJ, Pace CA, Fast NM, Donahue SM, **Caliendo AM**, Flanigan TP, Carpenter CCJ, and Nixon DF. Quantification of HIV-1-specific T-cell responses at the mucosal cervicovaginal surface. *AIDS*. 2000; 14:1911-1915.
27. Henderson D. **Caliendo AM**. Antiretroviral rounds. A red herring? *AIDS Clinical Care*. 2000; 12(8):66-7.
28. Witt DJ, Kemper M, Stead A, Sillekens P, Ginocchio CC, Espy MJ, Paya CV, Smith TF, Roeles F, and **Caliendo AM**. Analytical performance and clinical utility of a nucleic acid sequenced-based amplification assay for detection of cytomegalovirus infection. *Journal of Clinical Microbiology*. 2000; 38:3994-3999.
29. Fitzgerald DW, Behets F, **Caliendo A**, Roberfroid D, Lucet C, Fitzgerald JW, and Kuykens L. Economic hardship and sexually transmitted diseases in Haiti's rural Artibonite Valley. *American Journal of Tropical Medicine & Hygiene*. 2000; 62:496-501.
30. **Caliendo AM**, Schuurman R, Yen-Liebermann B, Spector SA, Andersen J, Manjiry R, Crumpacker C, Lurain N, and Erice A, for the CMV Working Group Complications of HIV Disease RAC, AIDS Clinical Trials Group (ACTG). Comparison of quantitative and qualitative PCR assays for CMV DNA in plasma. *Journal of Clinical Microbiology*. 2001; 39:1334-1338.
31. CuUvin S, Hogan JW, **Caliendo A**, Harwell J, Mayer K, and Carpenter CCJ. Association between bacterial vaginosis and expression of HIV-1 RNA in the female genital tract. *Clinical Infectious Diseases*. 2001; 33(6):894-896.
32. Humar A, Kumar D, **Caliendo AM**, Moussa G, Ashi-Sulaiman A, Levy G, and Mazzulli T. Clinical impact of human herpesvirus 6 infection after liver transplantation. *Transplantation*. 2002; 73:599-604.

33. Humar A, Kumar D, Raboud J, **Caliendo AM**, Moussa G, Levy G, and Mazzulli T. Interactions between cytomegalovirus, human herpesvirus-6, and the recurrence of hepatitis C after liver transplantation. *American Journal of Transplantation*. 2002; 2(5):461-6.
34. **Caliendo AM**, St. George K, Allegra J, Bullotta AC, Gilbane L, and Rinaldo CR. Distinguishing cytomegalovirus (CMV) infection and disease with CMV nucleic acid assays. *Journal of Clinical Microbiology*. 2002; 40:1581-1586.
35. Langston AA, Redei I, **Caliendo AM**, Somani J, Hutcherson D, Lonial S, Bucur S, Cherry J, Allen A, and Waller EK. Development of drug-resistant herpes simplex virus infection after haploidentical hematopoietic progenitor cell transplantation. *Blood*. 2002; 99(3): 1085-1088.
36. Humar A, Dumar, D, Boivin, G, and **Caliendo A**. Cytomegalovirus (CMV) viral load kinetics to predict recurrent disease in solid organ transplant patients with CMV disease. *Journal of Infectious Diseases*. 2002; 186 (6): 829-833.
37. Simko JP, **Caliendo AM**, Hogle K, and Versalovic J. Differences in laboratory findings for cerebrospinal fluid specimens obtained from patients with meningitis or encephalitis due to herpes simplex virus (HSV) documented by detection of HSV DNA. *Clinical Infectious Diseases*. 2002; 35: 414-419.
38. Fiebelkorn KR, Lee BG, Hill CE, **Caliendo AM**, and Nolte FS. Clinical evaluation of an automated nucleic acid isolation system. *Clinical Chemistry*. 2002; 48(9): 1613-1615.
39. Nolte FS, Green AM, Fiebelkorn KR, **Caliendo AM**, Sturchio C, Grunwald A, and Healy M. Clinical evaluation of two methods for genotyping hepatitis C virus based on analysis of the 5' noncoding region. *Journal of Clinical Microbiology*. 2003; 41: 1558-1564.
40. **Caliendo AM**, Yen-Lieberman B, Baptista J, Andersen J, Crumpacker C, Schuurman R, Spector S, Bremer J, and Lurain N. Comparison of molecular tests for detection and quantification of cell-associated cytomegalovirus DNA. *Journal of Clinical Microbiology*. 2003; 41:3509-3513.
41. Zimmer SM, **Caliendo AM**, Thigpen MC, and Somani J. Failure of linezolid treatment for enterococcal endocarditis. *Clinical Infectious Diseases*. 2003; 37: e29-30.
42. Culler EE, **Caliendo AM**, and Nolte F. Reproducibility of positive test results in the BDProbeTec ET system for detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae*. *Journal of Clinical Microbiology*. 2003; 41(8): 3911-3914.
43. Lee BG, Fiebelkorn KR, **Caliendo AM**, and Nolte F. Development and verification of an automated sample processing protocol for quantitation of human immunodeficiency virus type 1 RNA in plasma. *Journal of Clinical Microbiology*. 2003; 41(5): 2062-2067.
44. Harwell JI, Flanigan TP, Mitty JA, Macalino GE, **Caliendo AM**, Ingersoll J, Stenzel MS, Carpenter CCJ, and Cu-Uvin S. Directly observed antiretroviral therapy to reduce genital tract and plasma HIV-1 RNA in women with poor adherence. *AIDS*. 2003; 17 (13): 1990-1993.

45. De Pasquale MP, Leigh Brown AJ, Cu-Uvin S, Allega-Ingersoll J, **Caliendo AM**, Sutton L, Donahue S, and D'Aquila RT. Differences in HIV-1 pol sequences from female genital tract and blood during antiretroviral therapy. *JAIDS*. 2003; 34(1):37-44.
46. Erice A, Tierney C, Hirsch M, and **Caliendo AM**. Weinberg A. Kendall MA. Polsky B. AIDS Clinical Trials Group Protocol 360 Study Team. Cytomegalovirus (CMV) and human immunodeficiency virus (HIV) burden, CMV end-organ disease, and survival in subjects with advanced HIV infection (AIDS Clinical Trials Group Protocol 360). *Clinical Infectious Diseases*. 2003; 37(4):567-78.
47. Natividad-Villanueva GU, Santiago E, Manalastas RM, Jr. Brown HW, Ingersoll J, **Caliendo AM**, Mayer KH, and Cu-Uvin S. Human immunodeficiency virus in plasma and cervicovaginal secretions in Filipino women. *International Journal of STD & AIDS*. 2003; 14(12):826-9.
48. Hill C, Green A, Ingersoll J, Easley K, Nolte F, and **Caliendo AM**. Assessment of agreement between the AMPLICOR HIV-1 MONITOR test version 1.0 and 1.5. *Journal of Clinical Microbiology*. 2004; 42(1):286-289.
49. Kessler AT, Kourtis AP, and **Caliendo AM**. Vascular graft infection due to *Pasteurella multocida*. *Infection*. 2004; 32(2):122-123.
50. **Caliendo AM**, Ingersoll J, Green AM, Nolte FS, Easley KA. Comparison of the sensitivity and viral load values between the AMPLICOR HIV-1 MONITOR version 1.0 and 1.5 tests. *Journal of Clinical Microbiology*. 2004. 42 (11):5392-5393.
51. Barbeau JM, Goforth J, **Caliendo AM**, and Nolte FS. Performance characteristics of a quantitative, TaqMan Hepatitis C virus RNA analyte specific reagent. *Journal of Clinical Microbiology*. 2004;42(8):3739-3746.
52. Borucki M, Spritzler J, Asmuth D, Gnann J, Hirsch MS, Nokta M, Aweeka F, Nadler PI, Sattler F, Alston B, Nevin TT, Owens S, Waterman K, Hubbard L, **Caliendo AM**, Pollard RB and the AACTG 266 Team. A phase II, double-masked, randomized, placebo-controlled evaluation of a human monoclonal anti-cytomegalovirus antibody (MLS-109) in combination with standard therapy versus standard therapy alone in the treatment of AIDS patients with cytomegalovirus retinitis. *Antiviral Research*. 2004;64:103-111.
53. Crosby R, Salazar LF, DiClemente RJ, Yarber WL, **Caliendo AM**, and Staples-Horne M. Health risk factors among detained adolescent females. *American Journal of Preventive Medicine*. 2004;27:404-410.
54. Crosby RA, Salazar LF, DiClemente RJ, Yarber WL, **Caliendo AM**, Staples-Horne M. Accounting for failures may improve precision: Evidence supporting improved validity of self-reported condom use. *Sexually Transmitted Diseases*. 2005;32:513-515.
55. Newstein M, Losikoff P, **Caliendo A**, Ingersoll J, Kurpewski J, Hanley D, Cerezo J, Ramratnam B, Cu-Uvin S. Prevalence and persistence of nonnucleoside reverse transcriptase inhibitor mutations in the femal genital tract. [Letter] *JAIDS*. 2005;38:364-6.
56. **Caliendo AM**, Jordan JA, Green, AM, Ingersoll J, Wingood GM, and DiClemente RJ. Real-Time PCR Provides Improved Detection of *Trichomonas vaginalis* Infection

- Compared to Culture Using Self-Collected Vaginal Swabs. *Infectious Diseases in Obstetrics and Gynecology*. 2005;13:145-150.
57. Roback, J.D., **Caliendo, A.M.**, Newman, J.L., Sgan, S., Saakadze, N., Gillespie, T.W., Lane, T.A., Kurtzberg, J., and Hillyer, C.D. (2005) Comparison of CMV PCR and serology for screening umbilical cord blood components. *Transfusion*. 2005;45:172-1728.
 58. Cu-Uvin S, Snyder B, Harwell JI, Hogan J, Chibwesha C, Hanley D, Ingersoll J, Kurpewski J, Mayer KH, and **Caliendo AM**. Association between paired plasma and cervicovaginal lavage fluid HIV-1 RNA levels during 36 months. *J Acquired Immun Def Syndr* 2006;42:584-7.
 59. Hill CE, Harris SB, Culler EE, Zimring JC, Nolte FS, and **Caliendo AM**. Performance characteristics of two real-time PCR assays for the quantification of Epstein Barr Virus DNA. *American Journal of Clinical Pathology* 2006;125:665-671.
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Book Chapters

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2. Merrick WC, Abramson RD, Anthony DD, Jr., Denver TE, and **Caliendo AM**. 1987. Involvement of Nucleotides in Protein Synthesis Initiation. In: Translational Regulation of Gene Expression. Ed. Ilan J. Plenum Pub. Corp.
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4. **Caliendo, AM** and Yen-Lieberman, B. Viral Genotyping. In: Molecular Microbiology. Diagnostic Principles and Practice. 2004. 2nd Edition. Eds. DH Persing, FC Tenover, J Versalovic, Y-W Tang, ER Unger, DA Relman, TJ White. ASM Press. pp. 489-500
5. Hill, CE and **Caliendo, AM**. Viral Load Testing. In: Molecular Microbiology. Diagnostic Principles and Practice. 2004. 2nd Edition. Eds. DH Persing, FC Tenover, J Versalovic, Y-W Tang, ER Unger, DA Relman, TJ White. ASM Press. pp. 478-488.
6. Ferreira-Gonzalez, A and **Caliendo, AM**. Molecular Methods in Diagnosis and Monitoring of Infectious Diseases. In: Tietz Textbook of Clinical Chemistry and Molecular Diagnostics (4th Ed). Eds. Burtis, Ashwood, and Brunis. Elsevier Saunders. 2005.
7. **Caliendo, AM** and Nell S. Lurain. Cytomegalovirus. In: Molecular Diagnostics for the Clinical Laboratorian 2nd Edition. 2006. Eds. WB Coleman and GJ Tsongalis. Humana Press. pp. 473-482.
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15. Nolte FS and **Caliendo AM**. Molecular Detection and Identification of Microorganisms. In: Manual of Clinical Microbiology. 10th Edition. ASM Press. 2011.
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18. Ramjit RT and **Caliendo AM**. Human Immunodeficiency Virus. In: Diagnostic Molecular Pathology in Practice: A Case-Based Approach. Ed. Iris Schrijver. Springer. 2011; pp253-260.
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1. Caliendo, **AM**. Section Editor, Infectious Diseases Section. In: Molecular Pathology and Clinical Practice. Ed. Leonard, Springer, 2007.
2. **Caliendo, AM**. Section Editor, Virology Section. In: Manual of Clinical Microbiology, 9th Edition. ASM Press. 2007.
3. **Caliendo, AM**. Section Editor, Virology Section. In: Manual of Clinical Microbiology, 10th Edition. ASM Press. 2011.
4. **Caliendo, AM**. Section Editor, Infectious Diseases Section. In: Molecular Pathology and Clinical Practice. Second Ed. Leonard, Springer, 2012

Other Non-Peer Reviewed Publications

Laboratory Guidelines

1. National Committee for Clinical Laboratory Standards. Antiviral Susceptibility Testing; Approved Standard. NCCLS Document M33-A. 2000.
2. National Committee for Clinical Laboratory Standards. Quantitative Molecular Methods for Infectious Diseases; Approved Guideline. NCCLS document MM6-A. 2003.

3. Clinical and Laboratory Standards Institute (formerly NCCLS). Genotyping for Infectious Disease: Identification and Characterization; Proposed Guideline MM10-P. 2005.
4. Clinical and Laboratory Standards Institute. Quantitative Molecular Methods for Infectious Diseases; Approved Guideline. CLSI Document MM6A-2. 2010

UpToDate Contributions: UpToDate is a comprehensive clinical information resource.

1. **Caliendo, AM.** PCR testing for the diagnosis of herpes simplex virus encephalitis. In: UpToDate, Rose, BD (Ed), UpToDate, Waltham, MA, 2007, with annual updates
2. **Caliendo, AM.** Techniques and Interpretation of HIV-1 RNA quantitation. In: UpToDate, Rose, BD (Ed), UpToDate, Waltham, MA, 2007, with annual updates.
3. **Caliendo, AM.** Viral load testing for cytomegalovirus in solid organ transplant recipients. In: UpToDate, Rose, BD (Ed), UpToDate, Waltham, MA, 2007, with annual updates.

INVITED PRESENTATIONS

Organization of National or International Conferences

- 1999 Moderator, Infectious Diseases Workshop – Protocols and Internal Controls: Discussion of Survey. 5th Annual Meeting of Association for Molecular Pathology, St. Louis, MO.
- 2000 Moderator, Workshop: Review and Discussion of NCCLS Guidelines for Methods for Quantitative Testing for Infectious Diseases. 6th Annual Association for Molecular Pathology Meeting, Denver, CO.
- 2000 Member, Annual Meeting Program Committee, Association for Molecular Pathology
- 2001 Moderator, Symposium entitled: Clinically Relevant Molecular Testing in Infectious Diseases. 39th Annual Meeting of the Infectious Diseases Society of America, San Francisco, CA.
- 2003 Moderator, Symposium entitled: The Role of New Diagnostic Tests in Clinical Practice, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL.
- 2004 Moderator, Symposium entitled: Update on Viral Diagnostics: Traditional to “Real Time,” 104th Annual Meeting for the American Association for Microbiology, New Orleans, LA.
- 2008 Moderator, Symposium entitled: What’s New in Infectious Diseases Diagnostics? Society for Healthcare Epidemiology of America Annual Scientific Meeting, Orlando, FL
- 2008 Convener, pre-meeting workshop entitled: Optimizing Screening of Organ Donors for Transplantation: New Technologies and Future Directions, 48th

Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America 46th Annual meeting, Washington, DC

2009 Moderator, Symposium entitled: Nucleic Acid Testing (NAT) for Screening Organ Donors. 47th Annual meeting of the Infectious Diseases Society of America, Philadelphia, PA.

2009 - 2013 Program Committee Member, Annual Meeting Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)

2012 Organizing Committee, Scientific Working Group on the Standardization of Genome Amplification Techniques, 24th Blood Virology and 4th Clinical Diagnostics Meeting, Ljubljana, Slovenia May 2013.

Local/Regional

1994 Invited Speaker; Lecture, "Emerging Problems in Clinical Virology", in a conference entitled Infectious Diseases: New Challenges, New Strategies. Jersey Shore Medical Center, Neptune, NJ.

1995 Invited Speaker; Lecture, "Diagnostic Virology", Northeast Association for Clinical Microbiology and Infectious Diseases, Portland, ME.

1995 Invited Speaker; Lecture, "Diagnostic Virology", and "Clinical Virology Cases. 13th Annual Northeast Regional Joint Fall Conference, Maine Society for Clinical Laboratory Science, Portland, ME.

1997 Invited Speaker; Lecture, "HIV RNA Quantitation" in a lecture series entitled Molecular Diagnostic and Prognostic Markers of Disease. New England Society of Pathologists, Boston, MA.

1997 Invited Speaker; Lecture, "Clinical Virology - Where Have We Been and Where Are We Going" in the seventh Clinical Microbiology Update. Western Pennsylvania Society for Clinical Microbiology Mars, PA.

1997 Invited Speaker; Lecture, "Diagnosis of HSV, HIV and CMV Infections in Neonates", in a symposium entitled Maternal Child Health Care. Northeast Association for Clinical Microbiology and Infectious Disease, Cromwell, CT.

1998 Invited Speaker; Lecture, "Diagnosis of CMV Disease". University of Massachusetts Medical Center, Worcester, MA.

1998 Invited Speaker; Lecture, "Redefining *Mycoplasma pneumoniae* for the Clinician: Adventures with a PCR-Based Diagnostic Test" in a symposium entitled The Role of *Mycoplasma* in Human Disease: Looking Toward the Next Century. Massachusetts General Hospital, Boston, MA.

1998 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases". 16th Annual Northeast Regional Joint Fall Conference, Maine and New Hampshire State Societies of American Medical Technologists, Portland, ME.

1998 Invited Speaker; Lecture, "Diagnosis of *Chlamydial* and *Gonococcal* Infections Using Gene Amplification Technologies", in the 13th Annual Symposium on

Contemporary Topics in Clinical Microbiology and Infectious Disease. SUNY Health Science Center at Syracuse. Syracuse, NY.

- 1998 Invited Speaker; Lecture, "Molecular Diagnostic Testing in the Managed Care Era". Annual Fall Meeting, Northern California American Society for Microbiology, Sacramento, CA.
- 1999 Invited Speaker; Lecture, "Molecular Diagnosis of Atypical Pneumonia", 8th Annual Seminar on Molecular Pathology, William Beaumont Hospital, Royal Oak, Michigan.
- 1999 Invited Speaker; Lecture, "Update on HIV and HCV Viral Load", American Association for Clinical Chemistry, Northeast Section, Boston, MA.
- 1999 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases", 18th Annual Meeting of the Southwestern Association of Clinical Microbiology, Oklahoma City, OK.
- 1999 Invited Speaker, Lecture, "Molecular Techniques for Future Clinical Microbiology", 16th Annual Meeting, The Southern Association for Clinical Microbiology, Memphis, TN.
- 1999 Invited Speaker, Lecture, "HIV Genotyping" in a symposium entitled: Viral Genotyping: Improving Viral Disease Diagnosis and Therapy, American Association for Clinical Chemistry, Atlanta, GA.
- 1999 Invited Speaker, Lecture, "CMV Viral Load" in a workshop entitled: Viral Loads. Workshop preceding the 39th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA.
- 2000 Invited ASM Foundation Speaker, Lecture, "Molecular Diagnostics in Infectious Diseases". Clinical Microbiology Review and Update, Illinois Society for Microbiology. Des Plaines, IL.
- 2000 Invited ASM Foundation Speaker, Lecture, "Molecular Diagnostics in Infectious Diseases". Joint Annual Meeting, The American Society for Microbiology, Missouri Branch, Kansas, MO.
- 2000 Invited Speaker, Lecture, "Recent Advances in Molecular Diagnostics". American Association for Clinical Chemistry, Southeast Section, Spring Meeting, Gatlinburg, TN.
- 2000 Invited Speaker, Lecture, "Update on Hepatitis C Virus" South Central Association for Clinical Microbiology Spring Meeting, Louisville, KY.
- 2000 Invited Speaker, Lecture, "CMV Viral Load and Resistance Testing" in a workshop entitled Viral Loads. Workshop preceding the 40th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Toronto, ON.
- 2000 Lecturer, "Overview of Molecular Diagnostics for Infectious Diseases" Emory Division of Infectious Diseases Seminar. Emory University School of Medicine, Atlanta, GA.

- 2001 Invited Speaker, Lecture, "Molecular Diagnostics in Transplantation". Minnesota Interlaboratory Microbiology Association, Minneapolis, MN.
- 2002 Invited Speaker, Lecture, "Laboratory Testing Used in the Diagnosis and Management of HIV-1 Infection", American Society for Microbiology, Audio Conference Series.
- 2000 Invited Speaker, Lecture, "HIV and Molecular Testing", 50th Annual Pasteur Award luncheon and Fall Meeting, Illinois Society for Microbiology, Chicago, IL.
- 2001 Invited Speaker, Lecture, "Case Studies in Clinical Microbiology", South Eastern Association for Clinical Microbiology, Atlanta, GA.
- 2002 Invited Speaker, Lecture, "Update on Molecular Testing for the Diagnosis of Genital Tract Infections", Brown University Center for AIDS Research, Providence, RI.
- 2003 Invited Panelist, "Influenza Virus". Second Annual Emerging Infectious Pathogens Meeting, Atlanta, GA
- 2005 Invited Speaker, "Finances, Fellowships, and the Future of Molecular Diagnostics", Southeastern Association of Pathology Chairs, Puerto Vallarta, Mexico.
- 2004 Invited Speaker, "Molecular Diagnostics, Redefining the Practice of Infectious Diseases", Building a Molecular Diagnostics Laboratory, Washington G2 Reports, Miami, FL.
- 2008 Invited Speaker, "Molecular Diagnostics, Redefining the Practice of Infectious Diseases", 15th Annual First Coast Infectious Diseases/Clinical Microbiology Symposium, Jacksonville, FL.
- 2009 Invited Speaker, "Diagnostics for Respiratory Viruses: What's Available and What's Practical", 6th Annual Georgia Emerging Infections Program Meeting, Atlanta, GA.
- 2010 Invited Speaker, "Molecular Diagnostics for Respiratory Viruses", Molecular Pathology Essentials: Principles and Practice. Sponsored by the American Association of Clinical Chemists and the Association for Molecular Pathology. Atlanta, GA.
- 2013 Invited Speaker, "Molecular Diagnostics: Is the Future Now?" Annual Spring Symposium, Infectious Diseases Society of New Jersey, Iselin, NJ.
- 2013 Invited Speaker, "CMV, Bridging the Laboratory and Clinical Practice" in a Symposium entitled Updates in Molecular Diagnostics and Genomic Medicine" Newark, NJ.

Continuing Medical Education

- 1995 Invited Speaker; Lecture, "Pulmonary Manifestations of AIDS" in a conference entitled: AIDS: A Treatment Update for the Primary Care Provider. The North Shore Medical Center, Salem Hospital, Salem, MA.

- 1996 Invited Speaker; Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Boston, MA. "Molecular Diagnostics for Infectious Diseases".
- 1996 Invited Speaker, AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical, Boston, MA. "Determination of Viral Load and Use in Clinical Practice".
- 1997 Invited Speaker; Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Lecturer, Boston, MA. "Molecular Diagnostics for Infectious Diseases".
- 1997 Invited Speaker, AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical, Boston, MA. "Determination of Viral Load: Technical Aspects".
- 1998 Lecturer, Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Boston, MA. "Molecular Diagnostics for Infectious Diseases".
- 1998 Lecturer, AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA. "Molecular Diagnostics in HIV: Technical Aspects".
- 1999 Lecturer, Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Boston, MA. "Molecular Diagnostics for Infectious Diseases".
- 1999 Invited Speaker, Lecture, "Molecular Diagnostics in HIV: Technical Aspects" in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.
- 2000 Invited Speaker, Lecture, "Molecular Diagnostics in HIV: Technical Aspects" in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.
- 2000 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled: Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2000 Invited Speaker, Lecture, "Assays for Detection of CMV" and "Molecular Methods for the Diagnosis of Atypical Pneumonia", 18th Annual Summer Update in Clinical Immunology, Microbiology and Infectious Diseases, The University of Utah School of Medicine, Jackson Hole, WY.
- 2001 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2001 Invited Speaker, Lecture, "Molecular Diagnostics in HIV: Technical Aspects" in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.

- 2002 Invited Speaker, Lecture, "Molecular Diagnostics in HIV: Technical Aspects" in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.

- 2002 Invited Speaker, Lecture, "Clinical Cases in Microbiology and Molecular Diagnostics" in a course entitled Diagnostic Problems in Anatomic and Clinical Pathology, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, GA.

- 2002 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2002 Invited Speaker, Lecture, "Effective Use of the Laboratory in Infectious Diseases" in a course entitled Emory Updates in Primary Care. Emory University School of Medicine and Emory HealthCare, Atlanta, GA.

- 2003 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2003 Invited Speaker, Lecture, "Clinical Cases in Microbiology and Molecular Diagnostics" in a course entitled Diagnostic Problems in Anatomic and Clinical Pathology, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, GA.

- 2004 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2004 Invited Speaker, Lecture, "Update on HCV Diagnostics" in an audioconference. American Association for Microbiology, Atlanta, GA.

- 2005 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2005 Invited Speaker, Lecture, "Clinically relevant, cost-effective molecular testing for Infectious Disease" 12th Annual E. G. Scott Microbiology Symposium, Newark, Delaware.

- 2005 Invited Speaker, Lecture, "Molecular Testing: Impact on Clinical Diagnosis of Infectious Diseases" in a course entitled The Doctor Goes Back to the Lab: Bringing Basic Science to the Bedside, Emory University School of Medicine.

- 2006 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2005 Invited Speaker, Lecture, "Update on Influenza-Clinical and Laboratory Perspective" in the Emory Medical Laboratory 2006 Educational Symposium, Atlanta, GA.

- 2007 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2007 Invited Speaker, Lecture, "Clinical Cases in Microbiology and Molecular Diagnostics" in a course entitled Diagnostic Problems in Anatomic and Clinical Pathology, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, GA.
- 2008 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2008 Invited Speaker, Lecture, "Clinical Microbiology 2008" in the Vincent T.Andriole ID Update Course. 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America 46th Annual meeting, Washington, DC.
- 2008 Invited Speaker, Lecture, "Diagnostics for Respiratory Viruses: What's Available and What's Practical?" Department of Pathology, Gwinnett Hospital System.
- 2009 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2010 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2011 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2012 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2013 Invited Speaker, Lecture, "Molecular Diagnostics" in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

Local Grand Rounds

- 1994 Invited Speaker; Lecture, "Diagnostic Virology", Medical Grand Rounds, North Shore Medical Center, Salem Hospital, Salem, MA.
- 1996 Invited Speaker; Lecture, "Molecular Diagnostics", Pathology Grand Rounds, Massachusetts General Hospital, Boston, MA.
- 1999 Invited Speaker, Lecture, "Clinical Virology", Medical Grand Rounds, Melrose Wakefield Hospital, Melrose, MA.

- 1999 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases", Medical Grand Rounds, Whidden Memorial Hospital, Everett, MA.
- 1999 Invited Speaker, Lecture, "Molecular Testing for the Diagnosis of CMV Infections in Transplant Recipients", Pediatric Infectious Diseases Grand Rounds, Emory University School of Medicine, Atlanta, GA.
- 2001 Invited Speaker, Lecture, "Molecular Testing for Infectious Diseases: What is Clinically Relevant?", Medical Grand Rounds, Emory University School of Medicine, Atlanta, GA.
- 2002 Invited Speaker, Lecture, "Molecular Testing for CMV Disease in Transplant Recipients", Medical Genetics Grand Rounds, Emory University School of Medicine, Atlanta, GA.
- 2002 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases", Grand Rounds, Emory Crawford Long Hospital, Atlanta, GA.
- 2003 Invited Speaker, Lecture, "Clinical Utility of Molecular Testing for CMV", Pediatric Infectious Diseases, Egleston/Children's Healthcare of Atlanta, Atlanta, GA.
- 2007 Invited Speaker, Lecture, "Controversies in Community Acquired Pneumonia", Medicine Grand Rounds, Emory University School of Medicine, Atlanta, GA.

Invited Visiting Professorships/Grand Rounds

- 1997 Invited Speaker; Lecture, "Molecular Diagnostics for Infectious Diseases," Medical Grand Rounds, the University of Tennessee, Chattanooga, TN.
- 2001 Visiting Professor, Division of Molecular Diagnostics, Department of Pathology, University of Pittsburgh Medical Center, Pittsburgh, PA
- 2002 Grand Rounds Speaker; Lecture, "Molecular Testing Used in the Diagnostics and Management of HIV Infection," Hartford Hospital, Department of Pathology, Hartford, CT.
- 2002 Grand Rounds Speaker; Lecture, "Clinical Utility of Molecular Testing for CMV in Solid Organ Transplant Recipients," Johns Hopkins University School of Medicine, Department of Pathology, Baltimore, MD.
- 2003 Grand Rounds Speaker; Lecture, "HIV-1 Transmission in Women: Can We Impact Transmission?", Department of Obstetrics and Gynecology, Magee-Women's Hospital, University of Pittsburgh Medical Center, Pittsburgh, PA.
- 2003 Visiting Professor in Clinical Pathology; Lecture, "HIV-1 Dynamics in the Female Genital Tract: Impact on HIV-1 Transmission," Vanderbilt University Medical Center, Nashville, TN.
- 2003 Grand Rounds Speaker; Lecture, "Role of Molecular Diagnostics in Clinical Infectious Diseases," Harvard Medical School Combined Hospital Grand Rounds, Boston, MA.

- 2004 Grand Rounds Speaker; Lecture, "Managing CMV in Transplantation. Is there a Role for Molecular Testing?", Dartmouth Medical School, Lebanon, NH
- 2008 Visiting Professor, Clinical Pathology/Medical Microbiology, Lecture, "CMV Diagnostics, What's Behind the Move to Molecular?" Duke University Medical Center
- 2008 KeyNote Speaker, Pathology Research Day, Lecture: "CMV Viral Load: Bridging the Gap between the Laboratory and Clinical Care", Medical University of South Carolina, Charleston, SC.
- 2009 Grand Rounds Speaker, Pathology and Laboratory Medicine, Lecture: "CMV Viral Load: Bridging the Gap between the Laboratory and Clinical Care". University of Iowa Carver College of Medicine.
- 2009 Grand Rounds Speaker, Pathology and Laboratory Medicine, Lecture: "CMV Viral Load: Bridging the Gap between the Laboratory and Clinical Care". Indiana University School of Medicine.
- 2103 Visiting Speaker, Molecular Virology: Is the Future Here?, Infection and Immunity Research Club, Mayo Clinic, Rochester, MN.

National or International Conferences:

- 1996 Invited Speaker; Lecture, "Difficult to Diagnose Pneumonias" in a symposium entitled: Enhanced Diagnosis and Detection of Resistance through Nonculture Methods. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICCAC), New Orleans, LA.
- 1996 Invited Speaker; Lecture, "Molecular Diagnostics in HIV Infection" in a workshop entitled Molecular Diagnostics for Infectious Diseases. Association for Molecular Pathology, Baltimore, MD.
- 1997 Invited Speaker; Lecture, "Impact of Managed Health Care on Molecular Diagnostics" in the Annual Molecular Virology Workshop. Pan American Society for Clinical Virology, Clearwater Beach, FL.
- 1997 Invited Speaker; Lecture, "Molecular Methods for the Diagnosis of Atypical Pneumonia" in a symposium entitled Diagnosing a Current Infection: Role of Serologic and Molecular Techniques. 97th General Meeting, American Society for Microbiology Miami Beach, FL.
- 1997 Invited Speaker, Lecture, "Tests of Cure", in a symposium entitled HIV - Beyond Viral Load Testing. Association for Molecular Pathology Third Annual Meeting, San Diego, CA.
- 1998 Invited Speaker; Lecture, "Clinical Virology and Modern Health Care", in a symposium entitled Laboratory Diagnosis of Viral Infections. 14th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL.

- 1998 Invited Speaker; Lecture, "CMV- Biology, Epidemiology, Diagnostic Strategy, and Patient Management", in a program entitled Viral Testing in the Clinical Laboratory. American Association for Clinical Chemistry, Southeast Section, Atlanta, GA.
- 1999 Invited Speaker; Lecture, "How to Select a Reference Laboratory". 15th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL.
- 1999 Invited Speaker; Lecture, "Molecular Methods for Diagnosis and Management of HIV Disease", in a symposium entitled Molecular Methods in Infectious Diseases: Their Application and Interpretation. 39th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), San Francisco, CA.
- 2000 Invited Speaker; Lecture, "Will Molecular Diagnostic Testing Ever be Cost Effective: A Data Driven Analysis". 18th Annual Symposium Automated Information Management in the Clinical Laboratory. Ann Arbor, MI.
- 2000 Invited Speaker; Lecture, "Molecular Testing for Atypical Pneumonia: Buyer Beware" in a symposium entitled In-house PCR Methods – Validation and Clinical Use: Quality vs. Cost. 40th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Toronto, ON.
- 2001 Invited Speaker; Workshop: Review and Discussion of NCCLS Guidelines for Methods for Quantitative Testing for Infectious Diseases. 6th Annual Association for Molecular Pathology Meeting, Denver, CO.
- 2001 Invited Speaker; Lecture, "Successful Testing Protocols in Virology" in a symposium entitled Outcomes and Assessment, 24th Annual Arnold O. Beckman Conference, Newport Beach, CA.
- 2001 Invited Speaker; Lecture, "Use of HIV-1 Genotyping to Guide Antiretroviral Therapy" in an EduTrak entitled Transitioning Pharmacogenomics into Clinical Practice, 2001 American Association of Clinical Chemistry Annual Meeting, Chicago, IL.
- 2001 Invited Speaker; Lecture, "Update on Resistance Assays", 3rd Symposium of VIH/AIDS, Mexican Association of Clinical Microbiology and Infectious Diseases, Mexico City, Mexico.
- 2001 Invited Speaker; Lecture, "Advances in Diagnostic Molecular Virology", Fellow's Day Program, 39th Annual meeting of the Infectious Diseases Society of America, San Francisco, CA.
- 2001 Invited Speaker; Lecture, "Infections in Organ Transplant Recipients" in a symposium entitled Clinically Relevant Molecular Testing in Infectious Diseases. 39th Annual Meeting of the Infectious Diseases Society of America, San Francisco, CA.
- 2002 Invited Speaker; Lecture, "Molecular Diagnostics in Transplantation" in a symposium entitled Infection, Proliferation and Malignancy. American Society of Transplantation Sixth Annual Winter Symposium, Olympic Valley, CA.

- 2002 Invited Speaker, Lecture, "Validation, verification and QA for in-house developed assays" in a symposium entitled "Open Platform", Systems for developing molecular diagnostic assays. 102nd General Meeting of the American Society for Microbiologists, Salt Lake City, UT.
- 2002 Invited Speaker; Lecture, "Correlation of Viral Load in the Plasma and Genital Tract of HIV-Infected Women", Infectious Diseases Plenary Session, 8th Annual Meeting, Association of Molecular Pathology, Dallas, TX.
- 2002 Invited Speaker; Lecture "Rapid Diagnostics of Respiratory Viruses", in a symposium entitled Rapid Methods in Clinical Microbiology: Is Faster Better?, 40th Annual Meeting of the Infectious Diseases Society of America, Chicago, IL.
- 2003 Invited Speaker; Lecture "Clinical Cases in Clinical Virology", 19th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL.
- 2003 Invited Speaker, Sunrise Session; Lecture, "Rapid Testing for Respiratory Viruses", 103rd General Meeting of the American Society of Microbiologists, Washington, DC.
- 2003 Invited Speaker, Lecture, "New Diagnostic Tests for Respiratory Viruses" in a symposium entitled The Role of New Diagnostic Tests in Clinical Practice, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL.
- 2003 Invited Speaker, Lecture, Infectious Complications of Transplantation" in a symposium entitled Transplant Complications, 29th Annual Meeting American Society for Histocompatibility and Immunogenetics, Miami Beach, FL.
- 2003 Invited Speaker, Lecture, "Reimbursement for Quantitative HCV testing" in a Special Topics Plenary Session, 9th Annual Meeting for the Association for Molecular Pathology, Orlando, FL.
- 2004 Invited Speaker, Lecture, "Clinical Applications of Molecular Testing for Infectious Diseases" in a symposium entitled Molecular Testing, 39th Annual Meeting for the Academy of Clinical Laboratory Physicians and Scientists, Denver, CO.
- 2004 Invited speaker, Lecture, "Viral Diseases in the Immunocompromised Patient" in a symposium entitled Update on Viral Diagnostics: Traditional to "Real Time", 104th Annual Meeting for the American Association for Microbiology, New Orleans, LA.
- 2004 Invited Speaker; Lecture, "Molecular Diagnostics for Infectious Diseases," Fellows Day Program, 42nd Annual Meeting of the Infectious Diseases Society of America, Boston, MA.
- 2004 Invited Speaker; Lecture, "Non-Molecular Methods," in a workshop entitled Rapid Detection of Respiratory Pathogens, 10th Annual Meeting of the Association of Molecular Pathology, Los Angeles, CA.

- 2005 Invited Speaker; Lecture, “Rapid, Simple and Reliable HIV Viral Load Testing”
The Ethiopian Health & Nutrition Research Institute, Addis Ababa, Ethiopia.

- 2005 Invited Speaker; Lecture, “Rapid, Simple and Reliable HIV Viral Load Testing”
Armauer Hansen Research Institute, Addis Ababa, Ethiopia.

- 2005 Invited Speaker; Lecture, “Monitoring Viral Loads in Transplant Patients”
Annual Molecular Virology Workshop. Pan American Society for Clinical
Virology, Clearwater Beach, FL.

- 2005 Invited Speaker; Lecture, “Advances in Molecular Diagnostics of Infectious
Diseases, in a Symposium entitled Molecular Medicine: Clinical Diagnostics in the
Post-Genome Era, 1st International Meeting of the Clinical Ligand Assay Society,
San Diego, CA.

- 2005 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 21st Annual
Clinical Virology Symposium and Annual Meeting of the Pan American Society
for Clinical Virology, Clearwater, FL

- 2005 Invited Speaker, “CMV Diagnostics in Transplant Recipients” Annual Meeting
of the Korean Society for Clinical Microbiology, Seoul, Korea (June 05).

- 2005 Invited Speaker, “Introduction to Molecular Diagnostics and CMV in the
Transplant Patient” in an EduTrak entitled: Molecular Diagnosis of Viral
Infections in Transplant Patients, American Association of Clinical Chemistry
and International Congress of Clinical Chemistry Annual Meeting, Orlando, FL.

- 2005 Invited Speaker, Adapting Molecular Methods for Infectious Diseases: The
Global Public Health Perspective, in an EduTrak entitled: The Value of
Diagnostic Tests in Public Health in Southeast Asia and Other World Regions,
American Association of Clinical Chemistry and International Congress of
Clinical Chemistry Annual Meeting, Orlando, FL.

- 2005 Invited Speaker, Meet the Professor: “Molecular Diagnostics”, 43rd Annual
Meeting of the Infectious Diseases Society of America, San Francisco, CA

- 2005 Invited Speaker, Meet-the-Experts: “Recent Advances in Laboratory Diagnosis
and Monitoring of Viral Infections in the Immunocompromised Host”, 45th
Interscience Conference on Antimicrobial Agents and Chemotherapy,
Washington, DC.

- 2006 Invited Speaker, Sensitive Detection of Viral Target Nucleic Acid in CSF
Specimens for the Laboratory Diagnosis of CNS Infections by Molecular
Amplification, in a symposium entitled: Interpretation and Update of Molecular
Amplification Tests for Routine Clinical Practice, 44th Annual Meeting of the
Infectious Diseases Society of America, Toronto, Ontario, Canada

- 2006 Invited Speaker, New Diagnostic Tests for CAP: Are they Useful?, in a
symposium entitled: Controversies in Community Acquired Pneumonia. 46th
Interscience Conference on Antimicrobial Agents and Chemotherapy, San
Francisco, CA.

- 2007 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 23rd Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL
- 2007 Invited Speaker, “The HIV Patient and the Virology Lab: Use for Treatment and Follow up”; “Use of the Laboratory for monitoring Immunosuppressed Patients: CMV and EBV”; and “Clinical Cases”. Second Latin American Clinical Virology Symposium, Pucon, Chile.
- 2007 Invited Speaker, “Choosing a Molecular Test for Your Laboratory” Meet the Professor Session, 45th Infectious Diseases Society of America Annual Meeting, San Diego, CA.
- 2008 Invited Speaker, “Molecular Diagnosis in Respiratory Viral Infections”, 2nd Infections in Cancer Symposium, The University of Texas MD Anderson Cancer Center, Houston, TX
- 2008 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 24th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL
- 2008 Invited Speaker; Lecture “Molecular Diagnosis of Infections Due to Respiratory Viruses” in a symposium entitled: What’s New in Infectious Diseases Diagnostics? Society for Healthcare Epidemiology of America Annual Scientific Meeting, Orlando, FL
- 2008 Invited Speaker; Lecture “Results Reporting in a Clinical Microbiology Laboratory: Making an Impact”, College of American Pathologists Annual Meeting, San Diego, CA
- 2008 Invited Speaker; Lecture “Molecular Testing at Point of Care” in a symposium entitled Point of Care Testing for Infectious Diseases, 22nd International Symposium: Critical and Point of Care Testing, Barcelona, Spain.
- 2008 Invited Speaker; Lecture “Available Platforms for Donor-Screening” in a pre-meeting workshop entitled: Optimizing Screening of Organ Donors for Transplantation: New Technologies and Future Directions, 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America 46th Annual meeting, Washington, DC
- 2009 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 25th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL
- 2009 Invited Speaker: “Literature Review”, 49th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA.
- 2009 Invited Speaker: “Nucleic Acid Testing Platform Availability” in a symposium entitled: Nucleic Acid Testing (NAT) for Screening Organ Donors. 47th annual meeting of the Infectious Diseases Society of America, Philadelphia, PA.
- 2009 Invited Speaker, “A commutable cytomegalovirus calibrator is required to improve agreement of viral load values between laboratories”, presented at the

SoGAT II (Standardization of Genomic Amplification Technology) Clinical Diagnostic Meeting, Istanbul, Turkey.

- 2010 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 26th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2010 Moderator of Symposium entitled “The Role of the Clinical Laboratory in Infection Prevention and Control”, Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA.
- 2010 Invited Speaker, Workshop entitled “Update on Clinical Virology: From Cell Culture to Molecular Diagnostics”, 110th General Meeting of the American Society for Microbiology, San Diego, CA.
- 2010 Invited Speaker, “Developing a Molecular Calibrator” in a symposium entitled New Tools for Diagnosing Aspergillosis. 48th Annual Meeting, Infectious Diseases Society of America, Vancouver, BC.
- 2010 Invited Speaker, “Standardization of Viral Load in Transplant Patients”. III International Clinical Virology Symposium and Advances in Vaccines, Buenos Aires, Argentina.
- 2010 Invited Speaker and Moderator, Workshops: “Technical Topics-Technical Troubles” and “Viral Load Standardization: An Oxymoron”, 16th Annual Meeting, Association of Molecular Pathology, San Jose.
- 2010 Invited Speaker, “Applicability to Molecular Testing”, American Association of Clinical Chemistry Conference on Global Harmonization: An International Forum, hosted by National Institute of Standards & Technology, Gaithersburg, MD
- 2011 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 27th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2011 Enders Lecturer, “Molecular Diagnostics: Promises Realized and Lessons Learned”, 49th Annual Meeting, Infectious Diseases Society of America, Boston, MA.
- 2012 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 28th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2012 Invited Speaker, “Diagnostic Testing in Transplant Infectious Diseases: International Standards and New Assays”. 2012 Annual Meeting of the American Transplant Congress, Boston, MA.
- 2012 Invited Panel Member, in an Interactive Symposium entitled: “Evidence Based Approach to the Diagnosis and Management of Infectious Syndromes Post-Transplant”. 2012 ID Week, joint meeting of the Infectious Diseases Society of America, The Society for Healthcare Epidemiology of America, HIV Medicine Association, and Pediatric Infectious Diseases Society. San Diego, CA

- 2012 Invited Speaker, “Respiratory Diagnostics: Challenges for the Developing World and Emerging Technologies” in a Symposium entitled: “Community Acquired Pneumonia: Perspectives from Around the Globe”. 2012 ID Week, joint meeting of the Infectious Diseases Society of America, The Society for Healthcare Epidemiology of America, HIV Medicine Association, and Pediatric Infectious Diseases Society. San Diego, CA
- 2013 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 29th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2013 Invited Speaker, “Application of Quantitative Standards in Molecular Diagnostics”. 29th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2013 Invited Speaker, “CMV Viral load values: need for a commutable calibrator”. WHO Consultation on Commutability of WHO Biological Reference Preparations for in vitro Detection of Infectious Markers. Geneva, Switzerland.
- 2013 Invited Speaker, “The Clinical Need for Standardizing Molecular Testing for Aspergillus” in a Symposium entitled: Update on Fungal Diagnostics. 2013 ID Week, joint meeting of the Infectious Diseases Society of America, The Society for Healthcare Epidemiology of America, HIV Medicine Association, and Pediatric Infectious Diseases Society. San Francisco, CA.

GRANTS

Active support

1. Clinical Laboratory Diagnostics for Invasive Aspergillosis. Co-Investigator, Emory PI. (b) (6). NIH/NIAID. Total direct costs: \$8,996,000 (Emory Subcontract: \$848,000). 5/31/07-5/31/14.

Previous Support

1. Emory Center for AIDS Research. Co-investigator (5% effort). (Co-Director, Virology/Drug Discovery Core), (b) (6). NIH/NIAID. Total direct costs: \$5,437,520. 8/01/012-7/31/17.
2. Serious Hazards of Transfusion and Cellular Therapies: Mechanisms and Interventions. Co-Investigator (5%). (PI, (b) (6)). NIH. Total Cost \$1,505,450. 9/15/08-9/14/13.
3. Validation of the artus CMV RG PCR Kit. Qiagen, Co-investigator (b) (6) Cost: (b) (4) 3/10-3/14.
4. Clinical Reproducibility Study. Roche Molecular Systems. Cost: (b) (4), Role: PI. 12/10 – 12/14.
5. Clinical Utility Study, Roche Molecular Systems. Cost: (b) (4), Role: PI. 12/14/10-12/14/14

6. A Multilevel HIV-Prevention Strategy for High-Risk Youth. Co-investigator (5% effort). (PI, (b) (6)). NIH. Total direct costs: \$255,703. 9/04-7/09
7. HIV Sexual Risk-Reduction for African American Couples. Co-investigator (7.5% effort). (PI, (b) (6)). NIH. Total cost \$4,658,000. 2/02-11/08.
8. Antiviral therapy and HIV in the Genital Tract of Women. Subcontract PI (10% effort). (PI, (b) (6)). NIH RO1. Total direct costs \$1.5 million (Emory subcontract \$350,000). 4/97 - 3/03; 8/03-7/08.
9. Hope Clinic Microbicide Clinical Trials. Co-investigator (1% effort). (PI, (b) (6)). CDC. Total direct costs: \$643,682. 9/03-08/14/08
10. Rapid Virus Concentration and Purification for Enhanced Throughput and Sensitivity of Molecular and Diagnostic Virus Assays (10%). (PI, Caliendo (b)(6)). The Wallace H. Coulter Translational/Clinical Research Seed Grant Program. Total direct costs: (b) (4) 9/05-9/06.
11. HIV Prevention for Xhosa Women in South Africa. Co-investigator (2% effort). (PI, (b) (6)). NIAID. Total direct costs: \$365,614. 9/30/04-7/31/07
12. HIV RNA CD4 Assays for Resource-Poor Countries. Co-investigator (2% effort). ((b)(6) Caliendo). Doris Duke Innovation and Clinical Research Award for the Doris Duke Foundation. Total direct costs: (b) (4) 9/1/03-8/31/06.
13. PCR Screening for CMV in Umbilical Cord Blood Stem Cells. Co-investigator (2.5% effort). (PI, (b) (6)). NIH. Total direct costs: \$100,000. 4/01/02-3/31/05
14. DNA, MVA, Immunogens, Cross-Clade Immune Response. Co-investigator (5% effort). ((b)(6) Caliendo). Total direct (b) (4) 4/01 – 6/06 (Caliendo is no longer on grant).
15. Directly Observed Highly Active Antiretroviral Therapy for Active Substance Abusers. Co-investigator (5% effort). (PI, (b) (6)). NIH RO1. Total direct costs \$2.4 million (Subcontract). 7/01 - 8/04.
16. CMV Resistance, Viral Burden and Clinical Progression. Co-investigator. (PI, (b) (6)). NIH/NIAID. Total Direct Costs \$150,000 (Subcontract). 9/97 – 8/00.
17. CMV Quantitation Working Group. (PI, Caliendo). AIDS Clinical Trials Group. Total Direct Costs \$(b) (4) 5/99 - 4/01.
18. CMV/DNA Qualitative and Quantitative. (PI, Caliendo). AIDS Clinical Trials Group. Total Direct Costs \$(b) (4) 5/99 - 4/03.
19. A Probe Study of the Safety, Tolerability and Immunogenicity of the Human Immuno-deficiency Virus Type 1 (HIV-1) gag DNA Vaccine in Healthy Adults. Co-investigator (5% effort). ((b)(6) Merck, protocol 007. Total costs (b) (4) 12/99 - 5/03.
20. Nucleic Acid Testing for Cytomegalovirus to Improve the Quality of Umbilical Cord Blood Stem Cell Components for Transplantation. Co-investigator (5% effort). (PI, (b)(6)). Holland Laboratory Biomedical Development Project, American Red Cross. Total Costs: (b) (4) 7/01 - 8/02.

21. Persons without HAART: characteristics and determinants. Co-investigator (5% effort). (PI, (b)(6) NIH RO1. Total direct costs \$307,640. 9/00 - 8/03.

UNIVERSITY TEACHING ROLES

Medical Students

Case Western Reserve University School of Medicine, Cleveland OH

- 1984 Introduction to Biochemistry
Medical Student Teaching:
Designed and Taught Matriculation Course for Medical Students on Basic
Biochemistry and Metabolism
30 contact hours, 12 students

Harvard Medical School, Boston, MA

- 1992 Identity, Microbes, and Defense
Laboratory Instructor for 1st Year Medical Students
20 students, 12 contacts hours/year
- 1995 Medical Microbiology/Pathogenesis of Infectious Diseases (Human Systems
708.0), Tutor/ Instructor
11 students, 16 contact hours/year
- 1996 Immunology, Microbiology and Infectious Diseases
Tutor for 2nd year students
9 students, 25 contact hours/year
- 1997 Immunology, Microbiology and Infectious Diseases
Microbiology Laboratory Instructor
11 students, 13 contact hours
- 1998 Immunology, Microbiology and Infectious Diseases
Microbiology Laboratory Instructor, Virology Laboratory Instructor, and CPB
exercises 11 students, 17 contact hours

Graduate Program/Residency/Fellowship

Massachusetts General Hospital/Harvard Medical School

- 1994 - 1999 Clinical Pathology Lecture Series
Lecturer, Series on Clinical Microbiology and Infectious Diseases
6 Clinical Pathology Residents, 30 hours/year
- 1994 - 1999 Clinical Microbiology Plate Rounds
Lecturer, Clinical Microbiology Topics
5 Infectious Diseases Fellows, 2-3 Clinical Pathology Residents, 20
hours/year
- 1995 - 1997 Infectious Diseases Lecture Series
Lecturer, Clinical Virology, Molecular Diagnostics
15 - 20 Infectious Diseases Fellows and staff members, 2 hours/year
- 1996 - 1999 Internal Medicine Lecture series
Lecturer, Clinical Virology, Molecular Diagnostics
40 - 50 medical interns and residents

2 hours/year

1998 - 1999 Laboratory Medicine Rounds, Discussant
Rounds for Medical and Clinical Pathology Residents
10 - 15 residents, 30 hours/year

Emory University School of Medicine

1999 - 2011 Clinical Microbiology and Molecular Diagnostics teaching rounds at Emory University Hospital, 1-1.5 contact hours daily, 8 to 10 pathology residents have a 2 – 3 month rotation in Microbiology each year, 4 to 6 Infectious Diseases fellows have a 1 month rotation each year.

1999 - present Clinical Pathology Teaching Conference, 1 contact hour weekly, 15-20 Pathology Residents, and 8-12 faculty.

1999 Lecture entitled: Clinical Virology, Department of Pathology and Laboratory Medicine, 20 Residents, 2 contact hours.

2000 - 2003 Lecture, “Diagnostic and Clinical Virology”, Graduate Student Virology Course (BS 513), Department of Microbiology, Emory University, 15 students, 2 contact hours.

2001, 2003 Clinical Pathology Resident Core Didactic Series in Microbiology: Lectures; “Clinical Virology”, and “Molecular Diagnostics”, Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.

2001 - 2003 Lecture, Molecular Diagnostics in Infectious Diseases, Department of Medicine, 30 Medical Residents, 1 contact hour.

2001 - present Infectious Diseases Fellow Core Didactic Series: Lecture, “Clinical Virology”, Department of Medicine, Division of Infectious Diseases, 10 Infectious Diseases Fellows, 1 contact hour.

2002 - present Infectious Diseases Fellow Core Didactic Series: Lecture, “Molecular Diagnostics for Infectious Diseases”, Department of Medicine, Division of Infectious Diseases, 10 Infectious Diseases Fellows, 1-2 contact hours.

2002 - present Lecture, Working with the Labs, Masters of Science in Clinical Research Program, Rollins School of Public Health, 12 students, 1.5 contact hours.

2002 - present Lecture, Global Issues in Antimicrobial Resistance, Masters in Public Health Program, Rollins School of Public Health, 8-12 students, 1.0 contact hours.

2005 Clinical Pathology Core Didactic Series in Microbiology: Lectures; “Clinical Virology”, “Molecular Diagnostics”, and “Clinical Cases”, Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.

2005 - present “Lecture, Microbiology in the Clinical Laboratory”, Course Title: Public Health/Clinical Microbiology Laboratories, Masters in Public Health Program, Rollins School of Public Health, 6-10 students, 2.0 contact hours.

- 2006 Lecture, "Skin and Soft Tissue Infections", Infectious Diseases Lecture Series for Medical Residents, Department of Medicine, 25 residents, 1.0 contact hour.
- 2006 Lecture, "Diagnosis of Viral Respiratory Infections", Lecture Series for Medical Residents, Department of Medicine, 25 residents, 1.0 contact hour.
- 2007 Clinical Pathology Core Didactic Series in Microbiology: Lectures; "Clinical Virology", and "Clinical Cases", Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.
- 2008 Lecture, "Central Nervous System Infections", Infectious Diseases Lecture Series for Medical Residents, Department of Medicine, 25 residents, 1.0 contact hour.
- 2010 Clinical Pathology Core Didactic Series in Microbiology: Lectures; "Clinical Virology", and "Molecular Virology", Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.

Supervisory Teaching

- 1995 - 1996 Research Advisor for Cynthia Flynn, Pathology Resident
1 year project developing a *Chlamydia pneumoniae* PCR assay for use in the Clinical Microbiology Laboratory. Massachusetts General Hospital, Boston, MA.
- 2000 - 2001 Co-faculty Advisor for (b)(6) MD, Pathology Fellow (Molecular Diagnostics). Emory University Hospital, Atlanta, GA.
Current position: Clinical Pathology faculty, University of Texas Health Science Center, San Antonio, TX.
- 2001 - 2002 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow. Emory University Hospital, Atlanta, GA.
Current position: Clinical Pathology faculty, University of Texas Health Science Center, San Antonio, TX.
- 2002 - 2003 Co-faculty Advisor for (b)(6) MD, PhD, Molecular Pathology Fellowship, Emory University Hospital, Atlanta, GA.
Current position: Assistant Professor, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA.
- 2003 - 2004 Co-faculty Advisor for (b)(6) MD, JD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA.
Current position: Faculty, Louisiana State University, New Orleans, LA.
- 2003 Co-faculty Advisory for (b)(6) MD, Molecular Diagnostics Rotation (3 months), Emory University Hospital, Atlanta, GA.
- 2003 Co-faculty Advisory for (b)(6) MD, Molecular Diagnostics Rotation (3 months), Emory University Hospital, Atlanta, GA.

2004 - 2005 Co-faculty Advisor for (b)(6) MD, Molecular Pathology Fellowship, Emory University Hospital, Atlanta, GA. Current position: Assistant Professor, University of Florida, Jacksonville, FL.

2004 - 2005 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA. Current position: Director Clinical Microbiology Laboratory and Infectious Diseases Consultant DeKalb Medical Center, Atlanta, GA.

2005 - 2006 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA. Current Position: Staff Pathologist, Dell Children's Hospital, Austin Pathology Associates, Austin Texas.

2005 - 2006 Co-faculty Advisor for (b)(6) M.D., Molecular Pathology Fellowship, Emory University Hospital, Atlanta, GA. Current Position: Pathologist, Quest Diagnostics, Tucker, GA.

2006 - 2007 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow Emory University Hospital, Atlanta, GA. Current Position: Assistant Director Microbiology, Dept of Pathology and Laboratory Medicine, Weill Medical College of Cornell University, New York, NY.

2006 - 2007 Co-faculty Advisor for (b)(6) MD, Molecular Pathology Fellow, Emory University Hospital, Atlanta, GA.

2007 - 2008 Co-faculty Advisor for (b)(6) MD, PhD, Molecular Genetic Pathology Fellow, Emory University Hospital, Atlanta, GA.

2008 - 2009 Co-faculty Advisor for (b)(6) MD, Molecular Genetic Pathology Fellow, Emory University Hospital, Atlanta, GA.

2008 - 2009 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow Emory University Hospital, Atlanta, GA.

2009 - 2010 Co-faculty Advisor for (b)(6) MD, Molecular Genetic Fellow Emory University Hospital, Atlanta, GA.

2009 - 2010 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow Emory University Hospital, Atlanta, GA.

2010 - 2011 Co-faculty Advisor for (b)(6) MD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA.